E5CSL/E5CWL

OMRON

Temperature Controller

EN Instruction Manual

Thank you for purchasing the OMRON E5CSL/E5CWL Temperature Controller. This manual describes the functions, performance, and application methods needed for optimum use of the product.
Please observe the following items when using the product.

- This product is designed for use by qualified personnel with a knowledge of electrical systems.
- Before using the product, thoroughly read and understand this manual to ensure correct use.
- Keep this manual in a safe location so that it is available for reference whenever required.

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2113603-9B (CL1)

Safety Precautions

Key to Warning Symbols

⚠ CAUTION — Indicates a potentially hazardous situation which, if not avoided, is likely to result in minor or moderate injury or property damage. Read this manual carefully before using the product.

Warning Symbols

⚠ CAUTION

Do not touch the terminals while power is being supplied.
Doing so may occasionally result in minor injury due to electric shock.

Do not allow pieces of metal, wire clippings, or fine metallic shavings or filings from installation to enter the product. Doing so may occasionally result in electric shock, fire, or malfunction.

Do not use the product where subject to flammable or explosive gas. Otherwise, faster injury from explosion may occasionally occur.

Never disassemble, modify, or repair the product or touch any of the inburn parts. Minor electric shock, fire, or malfunction may occasionally occur.

If the output relays are used past their life expectancy, contact fusing or burning may occasionally occur. Always consider this application conditions and use the output relays within their rated load and electrical life expectancy. The life expectancy of output relays varies considerably with the output load and switching conditions.

Tighten the terminal screws to between 0.74 and 0.90 N·m. Loose screws may occasionally result in fire.

Set the parameters of the product so that they are suitable for the system being controlled. If they not are suitable, unexpected operation may occasionally result in property damage or accidents.

A malfunction in the Temperature Controller may occasionally make control operation impossible or prevent alarm outputs, resulting in property damage. To maintain safety in the event of malfunction of the Temperature Controller, take appropriate safety measures, such as installing a monitoring device on a separate line.

Suitability for Use

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the products in the customer's application or use of the product. Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used.
Know and observe all prohibitions of use applicable to this product.
NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
See also product settings for Warranty and Limitation of Liability.

Precautions for Safe Use

Be sure to observe the following precautions to prevent operation failure, malfunction, or adverse affects on the performance and functions of the product. Not doing so may occasionally result in unexpected events.

(1) The product is designed for indoor use only. Do not use the product outdoors or in any of the following locations.
- Places directly subject to heat radiated from heating equipment.
- Places subject to splashing liquid or oil atmosphere.
- Places subject to direct sunlight.
- Places subject to dust or corrosive gas (in particular, sulfide gas and ammonia gas).
- Places subject to intense temperature change.
- Places subject to icing and condensation.
- Places subject to inhibition into large shocks.

(2) Use/store within the rated temperature and humidity ranges.
Provide forced-cooling if required.
(3) To allow heat to escape, do not block the area around the product.
Do not block the ventilation holes on the product.
(4) Be sure to wire properly with correct polarity of terminals.
(5) Use specified size (M3.5, width 7.2 mm or less) crimped terminals for wiring. To connect bare wires to the terminal block, are copper braided or solid wires with a wire temperature of over 70°C into a gauge of AWG24 to AWG14 (equal to a cross-sectional area of 0.205 to 2.081 mm²). (The stripping length is 5 to 6 mm.) Up to two wires of same size into type, or two crimped terminals can be inserted into a single terminal.
(6) Do not wire the terminals which are not used.
(7) Allow no much space as possible between the controller into devices into generate a powerful high-frequency or surge.
Separate the high-voltage or large-current power lines from wires lines, into avoid parallel or common wiring with the power lines when you are wiring to the terminals.
(8) Use into specified into power supply.
(9) Make sure into the wires voltage is attained within into between of turning ON the power using a mallet or relay checks. If the voltage is present prolongedly, the power may not be when or output malfunctions may occur.
(10) Never sure into the Controller into 30 minutes or more in warm up after turning ON the power when starting actual control operations to ensure the control temperature display.
(11) A switch or circuit breaker should be provided close to into unit.
The switch or circuit breaker should be within easy reach of the operator, and must be marked as a disconnecting devices for this unit.
(12) Do not use paint within the wires lead into power supply.
(13) Design system (control panel, etc) considering the 2 seconds of delay into the controller's output to be not after power ON.
(14) The output may turn OFF when shifting in certain levels. Take this into consideration when performing checks.
(15) The content of non-volatile memory with operations is limited.

Specifications

Power supply voltage	100 to 240 VAC, 50/60 Hz
Operating voltage range	85% to 110% of the rated voltage
Power consumption	Approx. 3.5 VA
Sensor type	Thermocouples K, J, T, R, or S (JIS C 1602-1995 and IEC 60584-1)(Platinum resistance thermometer: Pt100 (JIS C 1604-1997 and IEC 60751(
Indication accuracy (ambient temperature: 23°C)	±0.5% of indication value or ±1°C, between is greater) ±1 digit max. R, S thermocouple in 200°C or into ±3°C ±1 digit max. K, T thermocouple in −100°C or less: ±2°C ±1 digit max.
Control output	Relay output: 250 VAC, 3 A (resistive load) Voltage output (for driving SSR): 12 VDC +20%/−15%, 21 mA
Alarm output	Relay output: 250 VAC, 1 A (resistive load)
Control interval	ON/OFF or 2-PID control
Electrical life of relay	100,000 operations
Sampling period	250 ms
Malfunction vibration	10 to 55 Hz, 20 m/s² for 10 met each in X, Y and Z directions
Vibration resistance	10 to 55 Hz, 20 m/s² for 2 h each in X, Y and Z directions
Malfunction alarm	100 m/s², 3 times each in X, Y, and Z directions
Shock resistance	300 m/s², 3 times each in X, Y, and Z directions
Ambient temperature	−10 to 55°C (with no freezing or condensation)
Ambient humidity	25% to 85%
Storage temperature	−25 to 65°C (with no freezing or condensation)
Altitude	2,000 m max.
Recommended fuse	T2A, 250 VAC, time-lag, low-breaking capacity
Weight	Approx. 100 g (Controller only(
Degree of protection	Front panel: IP50, Refer same IP20, Terminal section: IP00
Installation environment	Installation category II, pollution degree 2 (as per IEC 61010-1)
Memory protection	Non-volatile memory (number of write operations: 100,000)

Wiring

Model Number Legends

Models with Single Display: E5CSL- □□ (1 2 3 / S)
Models with Dual Display: E5CWL- □ 1 □ (1 2 3 / S)

1 Control output

R	Relay output: 250 VAC, 3 A
Q	Voltage output (for driving SSR): 12 VDC, 21 mA

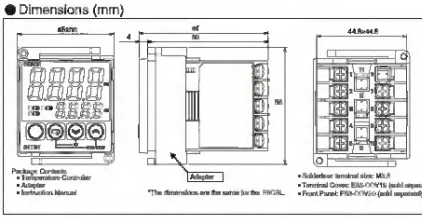
2 Alarm (E5CWL only)

1	Relay output: 250 VAC, 1 A (resistive load)

3 Sensor type

TC	Thermocouple (K, J, T, R, or S)
P	Platinum resistance thermometer (Pt100)

Dimensions (mm)

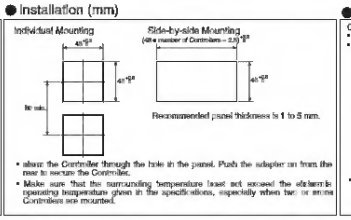


Package Contents
- Temperature Controller
- Adapter
- Instruction Manual

- Solderless terminal size: M3.5
- Terminal Cover: E53-COV16 (sold separately)
- Front Panel: P32-FV1W3 (sold separately)

*The dimensions are the same for the E5CWL.

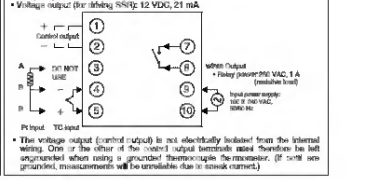
Installation (mm)



- Insert the Controller through the hole in the panel. Push the adapter on from the rear to secure the Controller.
- Make sure that the surrounding temperature does not exceed the allowable operating temperature given in the specifications, especially when two or more Controllers are mounted.

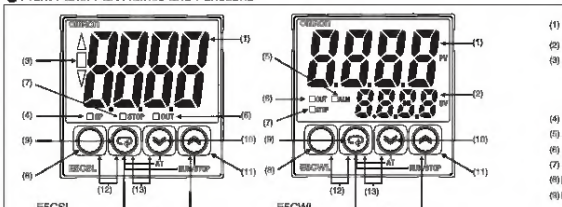
Connections

Control Output
- Relay output: 250 VAC, 3 A (resistive load)
- Voltage output (for driving SSR): 12 VDC, 21 mA


Control output
DO NOT USE
Alarm Output
Relay (power 250 VAC, 1 A (resistive load)
Input power supply: 100 to 240 VAC, 50/60 Hz
Pt input
TC input

- The voltage output (control output) is not electrically isolated from the internal wiring. One or the other of the control output terminals must therefore be left ungrounded when using a grounded thermocouple thermometer. (If both are grounded, measurements will be unreliable due to leak current.)

Front Panel Part Names and Functions

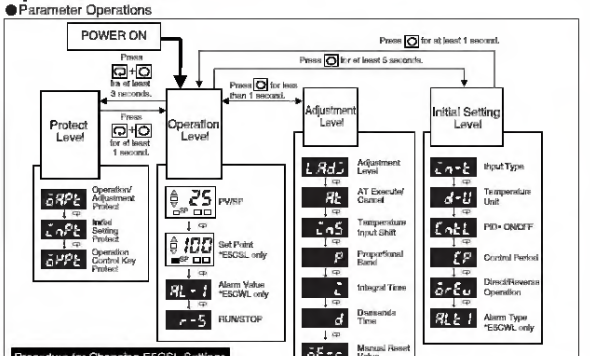


(1) Display No. 1 — Displays the process value (PV) or parameter. For the E5CSL, the set point or parameter setting is also displayed.
(2) Display No. 2 — Displays the set point (SP) or parameter setting.
(3) Deviation indicators — Show the relation between the process value and the set point.
▲ Lit: The process value is more than 5°C/°F higher than the set point.
▼ Lit: The process value is more than 5°C/°F lower than the set point.
■ Lit: The process value is within 5°C/°F of the set point.
The relevant deviation indicator will flash during autotuning.
(4) SP — Lit while the set point is displayed on display No. 1 (E5CSL only).
(5) ALM — Lit while the alarm is ON. Not lit while the alarm is OFF.
(6) OUT — Lit while the control output is ON. Not lit while the control output is OFF.
(7) STOP — Not lit during operation. Lit while operation is stopped.
(8) [M] — Level Key: Changes the setting level.
(9) [R] — Alarm Key: Changes the parameter within the setting level.
(10) [▽] — Down Key: Reduces the setting.
(11) [△] — Up Key: Increases the setting.
(12) [M]+[R] — Press these keys for at least 3 seconds in Operation Level or Adjustment Level to go to Protect Level.
Press these keys for at least 1 second in Protect Level to return to Operation Level.
(13) [R]+[▽] — Press these keys for at least 2 seconds to start or stop autotuning.*1
(14) [R]+[△] — Press these keys for at least 2 seconds to start or stop operation.*2

*1: These keys are disabled when starting and stopping autotuning has been disabled with operation alarm key protection.
*2: These keys are disabled when starting and stopping operation has been disabled with operation alarm key protection.

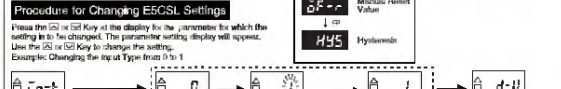
Operation Menu

Parameter Operations



Procedure for Changing E5CSL Settings

Press the [M] or [R] Key at the display for the parameter for which the setting is to be changed. The parameter setting display will appear.
Use the [△] or [▽] Key to change the setting.
Example: Changing the Input Type from 0 to 1



Parameter Tables

Step 1 Initial Setting Level: Used to set basic specifications.

Display	Parameter name	Description	Setting/monitoring range	Default
*In-t	Input Type	Set the input sensor type.	*Refer in table on the right.	0 or 5
*U	Temperature Unit	Set the unit for temperature input to Celsius (°C) or Fahrenheit (°F).	C(°C)/F(°F)	°C
CnEt	PID • ON/OFF	Set either 2-PID control or ON/OFF control.	2-PID/ON/OFF	ON/OFF
CP	Control Period	Set the time-proportional control period for the control output. (Displayed only when PID control is selected.)	0.5, 1 to 99	20 or 2 (s)
*Ero	Direct/Reverse Operation	Set either reverse operation (heating control) or direct operation (cooling control).	r-r (reverse operation) d-r (direct control)	r-r (reverse control)
ALt-1	Alarm Type	Set the alarm type.*E5CWL only.	*Refer in table on the right.	2 (high-limit)

Step 2 Operation Level: Used to monitor the process value and to set the set point, alarm values, etc.

Display	Parameter name	Description	Setting/monitoring range	Default
—	PV/SP	Monitor the process value and set the set point.	—	0.0 (°C)
AL-1	Alarm value	Set the alarm value. The setting of the set/red point depends on the input type. *E5CWL only.	-1999 to 9999	0 (°C)
r-S	RUN/STOP	Start and stop control operation. *1	run/StoP	RUN

Step 3 Adjustment Level: Used to tune parameters and set control parameters.

Display	Parameter name	Description	Setting/monitoring range	Default
LAdJ	Adjustment Level	This display indicates that you have moved to Adjustment Level.	—	—
AT	AT Execute/Cancel	Start and stope autotuning. (Displayed only when PID control is selected.)*2	oFF/on	OFF
InS	Temperature Input Shift	Set a compensation value for the temperature input in increments of 0.1°C or 0.1°F.	-1999 to 9999	0.0 (°C)
P	Proportional Band	Set the proportional band in increments of 0.1°C or 0.1°F.(Displayed only when PID control is selected.)	0.1 to 999.9	8.0 (°C)
I	Integral Time	Set the integral time in increments of 1 s. (Displayed only when PID control is selected.)	0 to 9999	233 (s)
d	Derivative Time	Set the derivative time in increments of 1 s. (Displayed only when PID control is selected.)	0 to 9999	40 (s)
oFFS	Manual Reset Value	Set the manipPower value in into P or PD control (I = 0). The offset will be corrected.	0.0 to 100.0	50.0 (%)
HYS	Hysteresis	Set the hysteresis in use to achieve Phase operation when switching the control output ON/OFF during ON/OFF control. (Displayed only when ON/OFF chosen is selected.)	0.1 to 9999	1.0 (°C)

Step 4 Protect Level: Used to set parameters to restrict key operations.

Display	Parameter name	Description	Setting/monitoring range	Default
oPPt	Operation/Adjustment Protect	Set protection for Operation Level and Adjustment Level.	*Refer to table on the right.	0
inPt	Initial Setting Protect	Set protection for Initial Setting Level.	*Refer to table on the right.	1
CoPt	Operation Control Key Protect	Set protection for the AT Key and RUN/STOP Key (operation control keys).	*Refer to table on the right.	0

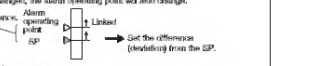
*1: Displayed only when Operation Control Key Protection is not in 4.
*2: The setting must be changed during autotuning. Autotuning will be stopped if you move to Initial Setting Level or stop control operation.
• Displays during Autotuning
E5CSL: The current deviation indicator will flash.
E5CWL: The AT Execute/Cancel characters on display No. 1 and the PV/SP characters on display No. 2 will flash.

Alarms

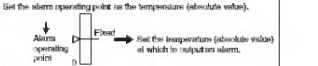
Setting	Alarm type	Positive alarm value (X)	Negative alarm value (X)	Deviation/Absolute value alarm
0	No alarm	Output OFF		
1	Deviation upper/lower limit	Always ON		Deviation alarm
2	Deviation upper limit	Always OFF		Deviation alarm
3	Deviation lower limit	Always OFF		Deviation alarm
4	Deviation upper/lower range	Always OFF		Deviation alarm
* 5	Deviation upper/lower limit standby sequence ON	Always OFF		Deviation alarm
* 6	Deviation upper limit standby sequence ON	Always OFF		Deviation alarm
* 7	Deviation lower limit standby sequence ON	Always OFF		Deviation alarm
8	Absolute value upper limit	Always OFF		Absolute value alarm
9	Absolute value lower limit	Always OFF		Absolute value alarm
* 10	Absolute value upper limit standby sequence ON	Always OFF		Absolute value alarm
* 11	Absolute value lower limit standby sequence ON	Always OFF		Absolute value alarm
12	Do not set.			

The default alarm type is 2.

Deviation Alarm
Use a deviation alarm to link the alarm to the SP.
If the SP is changed, the alarm operating point will also change.

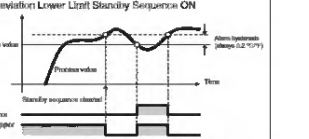


Absolute Value Alarm
Use an absolute value alarm when the alarm is not linked to the SP.


Set the alarm operating point as the temperature (absolute value).
Alarm operating point
Fixed
Set the temperature (absolute value) at which to output an alarm.

* Alarms with a Standby Sequence
The alarm is inactivated the first safe-state is reached.
Unwanted alarm during start-up are prevented.

Example: Deviation Lower Limit Standby Sequence ON



The standby sequence is cleared when the alarm OFF condition has been met.
The standby sequence is started again when any of the following conditions is met.
• Operation is started (power is turned ON or operation is switched from stop to run).
• The alarm value is changed.
• The temperature input Presets changed.
• The set point is changed.

Input type: Thermocouple

Input	Setting	Setting range (°C)	Setting range (°F)
K	0	−200 to 1300	−300 to 2300
	1	−20.0 to 500.0	0.0 to 900.0
J	2	−100 to 850	−100 to 1500
	3	−20.0 to 500.0	0.0 to 750.0
T	4	−200 to 400	−300 to 700
	5	−199.9 to 400.0	−199.9 to 700.0
R	6	0 to 1700	0 to 3000
S	7	0 to 1700	0 to 3000

The default input type is 0.

Input type: Platinum Resistance Thermometer

Input	Setting	Setting range (°C)	Setting range (°F)
Pt100	8	−200 to 850	−300 to 1500
	9	−199.9 to 500.0	−199.9 to 900.0

The default input type is 8.

Troubleshooting

Display	Meaning	Action
SEr- (S.ERR)	Input error*1	Check the wiring of inputs, disconnections, short-circuits and input type.
E111 (E111)	RAM memory error	Turn the power OFF then reset ON again.*2
E1105A (E111)/(SUM) *3	Non-volatile memory memory error	Press the [M] and [R] Keys for at least 3 seconds to initialize the settings and reset the non-volatile memory error.*2

- The control output and the alarm output will turn OFF when an error occurs.
(For SEr--, the alarm output will be processed for a high temperature error.)
- If the input value exceeds the display limit (-1999 to 9999) but it is still within the control range, ---- will be displayed in centre Press -1999.
Under these conditions, the control output and alarm output will operate normally.

*1: This error is displayed only when the process value and set point are displayed.
*2: If the display does not change, the Controller needs to be repaired.
If operation returns to normal, then noise may have caused the problem. Check for noise.
*3: On the E5CSL, E 1 1 1 and 5U4 will alternate on the display at 1-second intervals.
On the E5CWL, E 1 1 1 will be displayed on display No. 1 and 5U4 will be displayed on display No. 2.

Protection

• Operation/Adjustment Protection

Level		Setting 0	1	2	3
Operation Level	Process value	○	□	○	○
	PV/SP	■	※	■	○
	Others (Alarm Value)	■	■	▲	▲
Adjustment Level		※	▲	×	×

Default: 0
■: Can be displayed and changed.
□: Can only be displayed.
▲: Display or changing to another level is not possible.

• Initial Setting Protection

Level	Setting 0	1	2
Initial Setting Level	Do not set.	※	×

Default: 1
※: Can be displayed and changed.
▲: Display or changing to another level is not possible.

• Operation Control Key Protection

Operation Control	Setting 0	1	2	3	4
AT Execute/Cancel (F4SE)	○	▲	○	▲	△
RUN/STOP (F4SE)	○	○	×	▲	△

Default: 0
○: Operation control keys are enabled but operation control using parameters is disabled.
△: Operation control keys are disabled but operation control using parameters is enabled.
×: Operation control keys and operation control using parameters are disabled.

⚠ Conformance to EN/IEC Standards

This is a class A product.
In residential areas it may cause radio interference, in which cause the user may be required to take adequate measures to reduce interference.

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Aspire T120
User's manual

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Introduction

The ADT FOCUS® 200 PLUS is a user-friendly security system that monitors your site's detectors and alarms. Fully programmable, the FOCUS® 200 PLUS allows you to control hundreds of critical security functions from one menu-driven interface as simple to use as the automated teller machine (ATM) at your local bank.

The ADT FOCUS® 200 PLUS consists of a central control unit, an operating panel, and up to 255 protection points. The control unit is protected by a heavy-gauge steel cabinet and protected by a tamper sensor. While monitoring protection points 24 hours a day, the controller itself is electronically monitored by trained ADT personnel. If a hazard or security breach occurs, the appropriate authorities (police, fire) are alerted. In case of a maintenance problem, ADT service personnel can also be notified.

All functions are accessed through the system operating panels or through card/key readers.

FOCUS® 200 PLUS Features

- Attractive, easy-to-use, menu-driven operating panel.
- Up to 255 protection points in as many as eight independent groups from one central location.
- Manual activation or deactivation of any function.
- Ability to turn group(s) on in either the AWAY or STAY mode. STAY mode automatically bypasses certain point types. Check with your ADT service technician to see if your system contains any of these point types.
- Ability to bypass points for maintenance or service.
- Ability to program automatic activation/deactivation of security groups.

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Prerequisites

- AC outlet to charge the telescope with the supplied AC power adapter.
- An Apple iOS device with iOS 7.0 and later or an Android device with Android 4.0 if used without the included NexStar+ hand control.
- Free download of Celestron SkyPortal app from the App Store or Google Play if used without the included NexStar+ hand control.
- Phillips head screwdriver to install the StarPointer red dot finder.

⚠ Solar Warning

- Never look directly at the Sun with the naked eye or with a telescope (unless you have the proper solar filter). Permanent and irreversible eye damage may result.
- Never use your telescope to project an image of the Sun onto any surface, internal heat build-up can damage the telescope and any accessories attached to it.
- Never use an eyepiece solar filter or a Herschel wedge. Internal heat build-up inside the telescope can cause these devices to crack or break, allowing unfiltered sunlight to pass through to the eye.
- Never leave the telescope unsupervised. Make sure an adult who is familiar with the correct operating procedures is with your telescope at all times, especially when children are present.

Battery Caution

This product contains a long life lithium iron phosphate battery "LiFePO4". The battery includes numerous built-in safety features including protection against overcharging and overdischarging, and overheating. If reasonable care is used, the battery should last thousands of charge cycles without the need to replace it. To benefit from the maximum battery life, note the following recommendations:

- **Charge the battery to full as soon as you receive the telescope.**
- **Only use the included power supply to charge the battery, or an FCC and CE certified 12VDC power supply with at least 2 Amperes of current.**
- **Do not leave the battery fully discharged or low for an extended period of time.**
- **Keep the battery charged every 3 to 6 months.**
- **Do not store the battery above 140°F/60°C.**

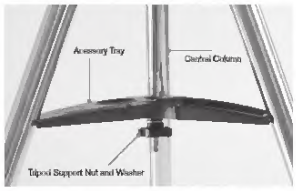
Assembly and Setup

Remove the parts from their shipping cartons and go over all the items in the parts list. Keep all of the original packaging so it can be used to transport the telescope safely.

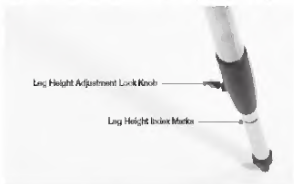
Set the fork arm mount on a sturdy flat surface. Remove all of the accessories from their individual boxes.

Tripod for 6" and 6" Models

1. Spread the tripod legs and stand the tripod upright.
2. Remove the Tripod Support Nut and Washer from the central column attached to the top of the tripod.

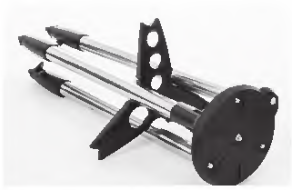


3. Place the accessory tray over the central column so that each of the three arms of the tray is touching a tripod leg.
4. Thread the nut and washer back onto the threaded column and firmly tighten into place. The accessory tray should not be able to move against the tripod.
5. Adjust the height of the tripod by loosening the lock knobs on the end of each tripod leg. Then adjust the leg height as needed and retighten the lock knobs, one leg at a time. Note the leg index marks can be used to easily level the tripod.



6. Confirm the tripod is level using the built-in bubble level on the tripod base.

Helpful Hint: *When transporting the telescope, the tripod can be folded with the accessory tray attached. Loosen the Tripod Support Nut and Washer to allow the accessory tray to drop, then rotate the accessory tray and fold the tripod legs into the slots on the tray.*



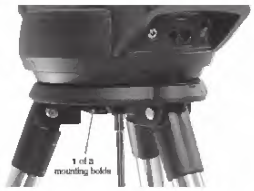
Mount

1. Place the fork arm mount on the tripod, carefully centering the mount over the center post on the tripod head. Do not let go of the mount until it has registered with the center post.

2. With the mount resting on the flat top surface of the tripod head, rotate the mount until the three mounting sockets align. The sockets will click into place, indicating they are aligned.

Note that the NexStar Evolution 9.25" model, which uses the larger tripod, does not click into place.

3. Thread the three attached mounting bolts from underneath the tripod head into the bottom of the telescope base. Tighten all three bolts.



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11) INDICATORS AND ALARMS

Indicator	Color	Description	Alarm
Utility Mode LINE	Green	**Steady**: Output Load Is supplied by Utility. **Blinking**: Polarity error or Ground Fault	None
Backup Mode	Amber	**Steady (with alarm)**: Output Load is supplied by Battery **Blinking every 5 seconds(no alarm)**:Stand by for Utility recovery to re-start up	Every 2 seconds before battery Low and every 1 second before battery Cutoff.
Fault	Red	When Overload, short circuit, or Output Voltage Abnormal occurs	Buzzer beeps continuously.
Battery Replacement	Red	**Blinking**: Battery is weak and needs to be recharged. **Steady**: Battery is dead.	None

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1.3.4.3 Mode Recognition Pull-in

The monitor shall recognize preset modes within a range of +/-1KHz whichever is less for horizontal ; and within +/-1Hz for vertical.

1.3.4.4 User Display Modes

In addition to the factory pre-set video modes, provisions shall be made to store up to 9 user modes. If the current mode is a user mode, the monitor shall select its previously stored settings. If the user alters a setting, the new setting will be stored in the same user mode. The user modes are not affected by the pre-set command. If the input signal requires a new user mode, storage of the new format is automatically performed during user adjustment of the display (if required).(Please see Note.(4))

Preset timing Chart

Preset Timing Chart

Item	No	Resolution	H-Sync (KHz)	V-Sync (KHz)	Band Width (MHz)	Polarit H	Polarit V	Source
1	T103	640x480@60Hz	31.469	59.941	25.175	-	-	VESA
2	T173	640x480@72Hz	37.861	72.809	31.500	-	-	VESA
3	T109	640x480@75Hz	37.500	75.000	31.500	-	-	VESA
4	T182	640x480@66.66Hz	35	66.66	30.24	-	-	MAC
5	T102	720x400@70Hz	31.469	70.087	28.322	-	+	VGA
6	T104	800x600@56Hz	35.156	56.250	36.000	+	+	VESA
7	T116	800x600@60Hz	37.879	60.317	40.000	+	+	VESA
8	T117	800x600@72Hz	48.077	72.188	50.000	+	+	VESA
9	T110	800x600@75Hz	46.875	75.000	49.500	+	+	VESA
10	T108	832x624@74.55Hz	49.722	74.55	57.28	-	-	VESA
11	T118	1024x768@60Hz	48.363	60.004	65.000	-	-	VESA
12	T157	1024x768@70Hz	56.476	70.069	75.000	-	-	VESA
13	T141	1024x768@75Hz	60.023	75.029	78.750	+	+	VESA
14	T203	1152x870@75Hz	68.700	75.000	84.520	-	-	
15	T126	1152x864@75Hz	67.5	75	108	+	+	
16	T161	1280x960@60Hz	60	60	108	+	+	VESA
17	T179	1280x1024@60Hz	63.981	60.020	108.000	+	+	VESA
18	T131	1280x1024@75Hz	79.976	75.025	135.000	+	+	VESA
19	T339	1280x720@60Hz	44.955	59.940	74.176	+	+	
20	T213	1280x800@60Hz	49.702	59.810	83.500	+	+	
21	T278	1366x768@60Hz	47.712	59.790	85.500	-	-	

1.3.5 Controller Requirements

1.3.5.1 General Requirements

The monitor shall include a controller capable of converting the analog RGB signal from a standard SXGA resolution video controller in the CPU to a signal which can be displayed on the panel. The controller will include a PLL, A/D converters, LVDS transmitter and other circuitry necessary to perform its function. The PLL shall be stable enough to ensure that a static image from the CPU is placed in the same physical location on the flat panel in each frame.

1.3.5.2 Video Stretching

The monitor shall contain provisions to "stretch" the video signal, so that an input signal from the computer in any resolution smaller than 1366 x 768 is automatically expanded to fill the entire screen.

1.3.5.3 Panel Timing and Interface

The controller supplied with the monitor shall control all panel timing. This controller shall adequately insulate the monitor from the computer, so that no possible combination of input signals from the computer shall cause damage to the flat panel or any other component of the monitor. The LCD panel interface shall support the TFT standard.

1.3.6 DC - AC Inverter Requirements

The DC-AC inverter is on the power board. The frequencies used by the DC-AC inverter used to power the backlight shall be chosen so as to prevent any noticeable effects on the flat panel (such as a rolling effect).

1.3.7 Power Supply Requirements

The AC to DC converter power supply for the monitor shall be an external AC to DC converter "brick" This brick shall have an IEC receptacle for main power input and a pin - in ---socket for DC power out. The brick shall provide sufficient power for both the monitor and the backlight assembly, and shall meet requirements specified in Table 2.

Table 2. AC TO DC Converter Requirements

Table 2
AC to DC Converter Requirements

Input Voltage Range	The operating range shall be from 90 to 132 and 195 to 265 AVC sinusoidal for all models specified.
Input Frequency Range	Input power frequency range shall be from 47 to 63 Hz over the specified input voltage range.
Power Consumption	Power consumption for the monitor shall be less than W over the specified voltage and frequency ranges. In suspend or sleep mode the power consumption will be less than 2W.
Line Fuse	The AC input shall be fused and become electrically open as a result of an unsafe current level. The fuse many not be user replaceable.
Initial Cold Start	The power supply shall start and function properly when under full load, with worst case conditions of input voltage, input frequency, operating temperature, and cold backlight lamps.
Inrush Current	The inrush current must be limited to 30A when operated at 120VAC, and 50A when operated at 220VAC. Inrush current is measured at an ambient temperature of 25 °C, with the unit temperature stabilized in the poweroff.
Hot Start Cycle	The power supply shall be damaged when switched ON for one second and OFF for one second for seven consecutive after operating for one hour at full load, 25 °C, and nominal input line voltage.
Under Voltage	The power supply shall contain protectivecircuitry such that the application of an input voltage below the minimum specified in this table shall not cause damage to the power supply unit nor cause failure of the input.
Line Transient	The power supply shallperate within IEC 8044 (± 1KV) and IEC 801-5 (± 2KV) for the domestic U.S. version. The UPS power supply shall operate and comply with CE mark.

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Compaq Server Management Driver

The Compaq Server Management Driver resets the ASR timer continually. The timer is set to expire in 10 minutes. If the ASR timer counts down to zero before being reset due to an operating system crash or a server lockup, ASR restarts the server.

The Compaq Server Management Driver is independent of the ASR timer. Load the driver and enable the ASR timer, which allows the driver to detect and log information regarding numerous hardware and software errors. However, you cannot enable the ASR timer without loading the Compaq Server Management Driver. The Server Management Driver provides many benefits in addition to ASR, including ECC error detection, CPU processor memory, and hard drive prefailure support. Also, the Compaq Server Management Driver works with Compaq Insight Manager to provide a complete systems management solution.

The following ASR flowchart shows you the sequence of events after a hardware or software error occurs:

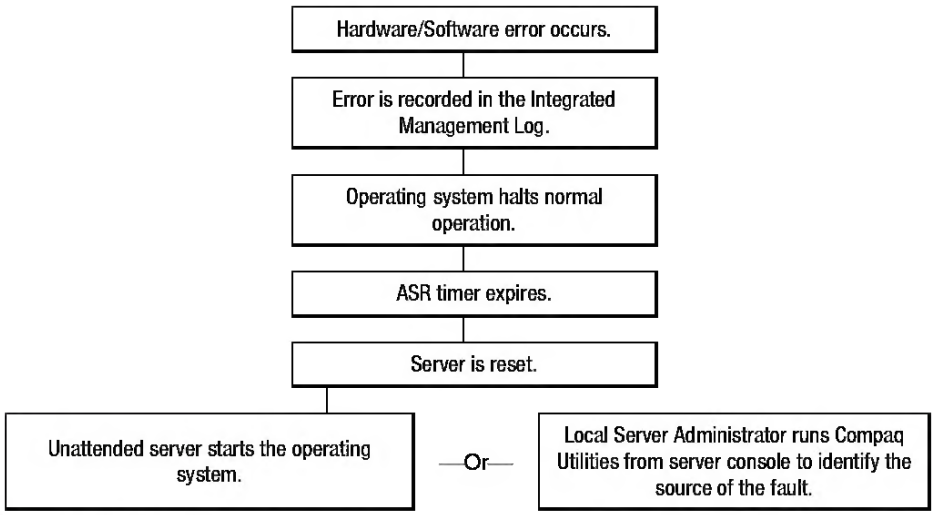
Hardware/Software error occurs.
Error is recorded in the Integrated Management Log.
Operating system halts normal operation.
ASR timer expires.
Server is reset.
Unattended server starts the operating system.
—Or—
Local Server Administrator runs Compaq Utilities from server console to identify the source of the fault.

Figure 3-1. ASR flowchart

ASR Security

The standard Compaq password features function differently during ASR than during a typical system startup. During ASR, the system does not prompt for the power-on password. This allows ASR to restart the operating system without user intervention.

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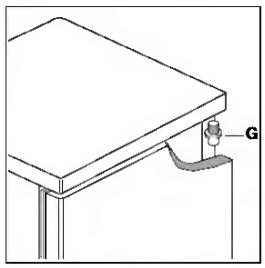
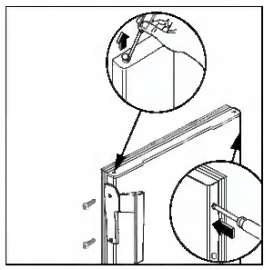
and remount them on the other side.

5. Refit the door.
6. Refit bottom hinge (E) on the opposite side, using the two screws previously removed.
7. Remove blanking cover (F) from ventilation grille (D) by pushing it in the direction of the arrow and refit it on the opposite side.
8. Refit ventilation grille (D), clipping it into place.
9. Unscrew the handle. Refit it on opposite side after having pierced the plugs with a punch. Cover the holes left open with the plugs contained in the documentation pack.





Attention:

After having reversed the opening direction of the doors check that all the screws are properly tightened and that the magnetic seal adheres to the cabinet. If the ambient temperature is cold (i.e. in Winter), the gasket may not fit perfectly to the cabinet. in that case, wait for the natural fitting of the gasket or accelerate this process by heating up the part involved with a normal hair-drier.

Electrical connection

Before initial start-up, refer to the appliance rating plate to ascertain if supply voltage and current values correspond with those of the mains at the installation location.

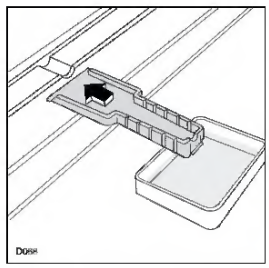
e.g.: AC 220 ... 240 V 50 Hz or
220 ... 240 V~ 50 Hz

(i.e. 220 to 240 volts alternating current, 50 Hertz)

The rating plate is inside the appliance on the left.

A correctly installed, earthed socket is required for the electrical supply. The supply must have a fuse rating of at least 10 Amps.

4. Insert the plastic scraper into the recess provided under the defrost water channel and place a collecting basin under it.
5. Once defrosting is completed keep the scraper for future use;
6. Turn the thermostat knob to the required setting or replace the plug in the power socket.



Warning!

Never use metal tools to scrape off the frost

Do not use a mechanical device or any artificial means to speed up the thawing process other than those recommended by the manufacturer.

A temperature rise of the frozen food packs, during defrosting , may shorten their safe storage life.

Cleaning and Care

For hygienic reasons the appliance interior, including interior accessories, should be cleaned regularly.

Warning!

- The appliance may not be connected to the mains during cleaning. Danger of electrical shock! Before cleaning switch the appliance offand rem ve the plug from the mains, or switch off or turn out the circuit breaker or fuse.
- Never clean the appliance with a steam cleaner. Moisture could accumulate in electrical components, danger of electrical shock! Hot vapours can lead to the damage of plastic parts.
- The appliance must be dry before it is placed back into service.

Attention!

- Ethereal oils and organic solvents can attack plastic parts, e.g.

– lemon juice or the juice from orange peals;
– butyric acid;
– cleansers which contain acetic acid.

Do not allow such substances to come into contact with appliance parts.

- Do not use any abrasive cleansers.

1. Remove frozen food and the food from the refrigerator. Wrap frozen food in several layers of newspaper. Store it in a cool place, well covered.

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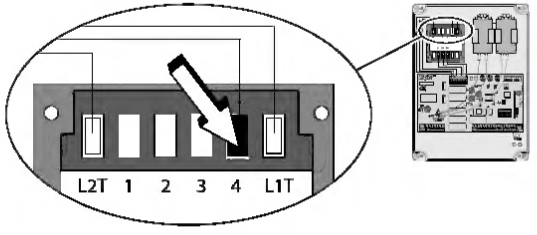
Adjusting the motor torque

To vary the motor torque, move the show faston to one of the four positions:
1 min., 4 max..



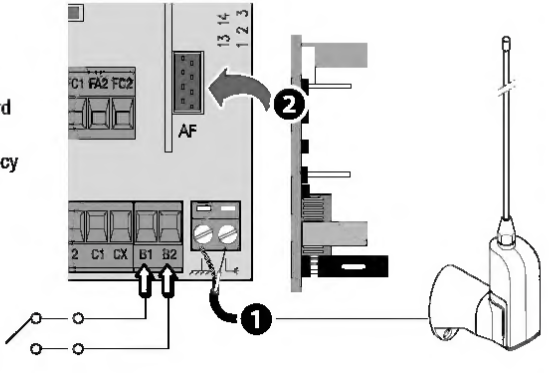
ACTIVATING THE RADIO CONTROL

Antenna and AF radiofrequency card

❶ Connect the antenna's RG58 cable to the corresponding terminals.

❷ Fit the radio frequency card into the control board AFTER CUTTING OFF THE MAIN POWER SUPPLY
N.B.: The control board recognizes the radiofrequency card only when it is powered up.

Possible connection of a second operator, that can be activated by the second channel of the radio circuit (contact NO). Contact rated for: 5A-24 V DC



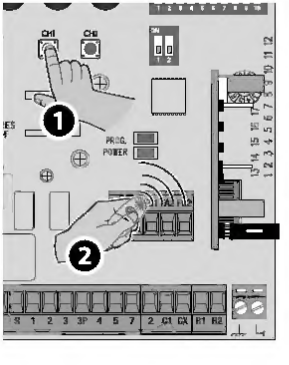
Memorization (max. 25 different transmitters)

CH1 = Channel for direct commands to a functions of the gearmotor's control board ("open only / " open-close-invert" command or "open-stop-close-stop", depending on the selection made on DIP-switches 2 and 3).

CH2 = Channel for direct command to an accessory device connected to B1-B2.

❶ Keep button CH1 pressed on the control board (the warning LED will flash), with a transmitter button send the code ❷, the LED will stay on to tell you that memorization has been successful.

Perform the same procedure with button CH2, **associating** it to another button on the transmitter.



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NOTE:
Upgrades may fail if the OEMPREINSTALL=YES aptian is enabled.

4. Verify that yau have netwark cannectivity sa that yau can run and install the files aff the netwark. Alsa, verify that yau have the carrect privileges ta run fram the Windist falder. (This shauld have been canfigured when yau ran SETUPMGR.EXE, but shauld be verified.)
5. Execute UNATTEND.BAT lacally. There will be a brief pause, but then the graphical user interface (GUI) shauld run and praceed with na interruptians if everything was set carrectly when yau ran the SETUPMGR.EXE file and madified the UNATTEND.TXT file. The server shauld rebaat ance.
6. Pay clase attentian ta the BOOT.INI aptians that pap up. Verify that the installatian is perfarming an upgrade and nat a clean install at this paint.
7. After the upgrade has campleted and yau are lagged inta Windaws Server 2003, install Versian 7.30A af the PraLiant Suppart Pack (PSP) far Micrasaft Windaws Server 2003, which is available at http://h18023.www1.hp.cam/suppart/files/server/us/lacate/3376.html. The PSP cantains numeraus files. Far the PSP ta be installed praperly, all files must be present in the same directary as the SETUP.EXE pragram.
8. If HP Smart Array MultiPath Saftware Versian 1.0 was uninstalled priar ta the upgrade, install HP Smart Array MultiPath Saftware Versian 2.0. Then, recannect the SCSI cable ta the redundant HBA.

Appendix A: supported servers

All PraLiant servers with Pentium III and Pentium III Xean and later pracessars are supparted and will be qualified by HP with Windaws Server 2003 SP1. This includes all PraLiant ML, DL, and BL server madels.

Fram the fallawing families, anly select legacy servers that meet the Pentium III and Pentium III Xean and later pracessars criteria are supparted.

- PraLiant 3000
- PraLiant 5500
- PraLiant 6000
- PraLiant 6400r
- PraLiant 6500
- PraLiant 7000
- PraLiant 8000
- PraLiant 8500

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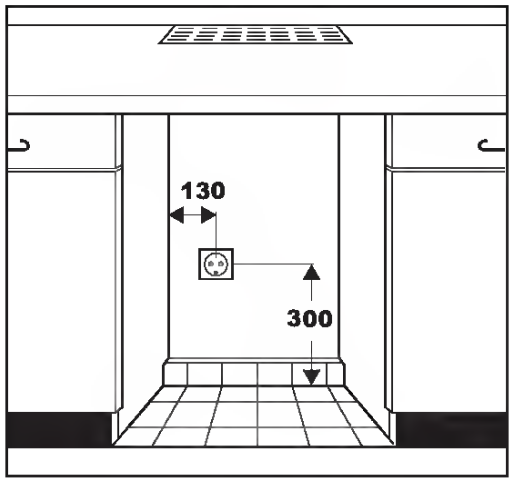
Plug Socket



The plug socket necessary for connection of your appliance to the electricity supply should be positioned so that it is possible to pull out the appliance plug. If your appliance is installed under a continuous worktop, the plug socket should be provided as shown. Alternatively a concealed spur socket fitted with a 13 A fuse may be fitted. If the outlet socket is no longer accessible after installation of the appliance, the electrical installation must include suitable means of isolating the appliance from the mains (e.g. fuse, cut-out, current trip or similar with a minimum contact separation of 3 mm). The mains cable may only be changed by a qualified electrician or competent person. If your appliance needs repairing, please contact your local Service Force Centre.

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Timer playback

Turns on the unit at a specified time for the specified duration. Make sure the clock is set correctly.

1 **Hold down SHIFT and press TIMER on the remote control.**
"🕘" lights up and "🕒 PLAY" is displayed.

2 **Within 12 seconds, press SET.**

3 **Press ◄◄ or ►► to set the timer-on time, and press SET.**
Each press changes the time in 1-minute steps.
Holding these buttons down will vary the time in 10-minute units.

4 **Press ◄◄ or ►► (TUNER/BAND, AUX or ►II CD) to select the source, and press SET.**
- For timer play of a CD, select "CD".
- For timer play of a radio broadcast, select "TUNER". You will select the band later in step 7.
- For timer play of the equipment connected to the VIDEO/AUX IN jacks, select "AUX (VIDEO or TV)".

5 **Press ◄◄ or ►► to set the timer-activated duration, then press SET.**
With each press, the timer-activated duration changes in 5-minute steps between 5 to 240 minutes.

6 **Press ◄◄ or ►► (turn VOLUME on the main unit, or press VOLUME −,+ on the remote control) to adjust the volume for timer playback, and press SET.**
The volume level can be adjusted from 0 to 24.

7 **Prepare the source.**
To play CD, load a disc.
To play the radio, select the band and tune in the desired station.
To play external equipment connected to the VIDEO/AUX IN jacks, set an external timer for the equipment so that its playback begins at the same time.

8 **Press POWER ⏻STANOBY/ON (POWER) to turn the unit off.**
"🕘" remains on the display to indicate the timer standby mode (when ECO mode is deactivated).
At timer-on time, the unit turns on and plays the selected source. After the specified timer-activated duration, the unit turns off again.

- Timer playback will not begin unless the unit is turned off first.
- Connected equipment cannot be turned on or off by the built-in timer of this unit. Use an external timer.

To check the timer setting
Hold down SHIFT and press TIMER on the remote control so that "🕒 PLAY" appears on the display.
The timer-on time, the source and the timer-activated duration are displayed for 12 seconds.

To change the timer setting
Reset the timer again.

To cancel the timer
Hold down SHIFT and press TIMER on the remote control twice until "🕒 OFF" is displayed. "🕘" disappears from the display.

Tip:
Your timer setting is retained even if the timer is cancelled. Next time the timer is activated, you can change your previous setting, or simply use the same setting again.

En

1.3.4.2 Factory Assigned Display Modes

Mode	Resolution			
1		640x480	60	Hz
2	MAC	640x480	66.66	Hz
3	VESA	720x400	70	Hz
4	SVGA	800x600	56	Hz
5	SVGA	800x600	60	Hz
6	XGA	1024x768	60	Hz
7	XGA	1024x768	70	Hz
8	VESA	1152x864	75	Hz
9	SXGA	1280x1024	60	Hz
10	VESA	1280x720	60	Hz
11	WXGA	1280x800	60	Hz
12	WXGA+	1440x900	60	Hz
13	WSXGA+	1680x1050	60	Hz
14	UXGA	1920x1080	60	Hz

1.4 Flat Panel

1.4.1 General Requirements

The panel shall be a FULL HD resolution 23" diagonal TFT-LCD

1.4.2 Polarizer Hardness

The front polarizer should have hard coating (3H) and anti-glare treatment

1.4.3 Backlight Requirements

1.4.3.1 General Requirements

Parameter	Symbol	Values			Unit	Notes
		Min	Typ	Max		
LED String Current	Is	-	100	110	mA	1, 2, 5
LED String Voltage	Vs	46.4	49.6	52.8	V	1, 5
Power Consumption	PBar	-	14.9	15.8	Watt	1, 2, 4
LED Life Time	LED_LT	30,000	-	-	Hrs	3

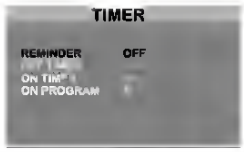
1.4.4 Defects

1.4.4.1 Defect Terminology

Dark Spots / Lines: Spots or lines that appear dark in the display patterns and are usually the result of contamination. Defects do not vary in size or intensity (contrast) when contrast voltage is varied. Contrast variation can be achieved through the use of varying gray shade patterns.

Bright Spots / Lines: Spots or lines that appears light in the display patterns. Defects do not vary in size or

BASIC OPERATION



TIMER : To access the timer menu, move the cursor to timer option in features menu. You can set the reminder timer upto 120 minutes and you can be warned at the set reminder time. You can set On / Off timer by using 0 to 9 keys. Your TV set will switch On / Oft automatically at the time you select. Set program number in On Program by using 0 to 9 keys. Set will get switched ON to that program number by default after execution of On timer.

CLOCK : You can set time by using 0 to 9 keys and mode you can select as AM / PM or 24Hrs or ALARM OFF. On / Off timer will not work if you set mode as ALARM OFF.
Clock display will appear continuously on the screen by pressing call key and it will disappear by pressing call key again.

Following features will appear as you scroll down the cursor in features menu.

BLUEBACK : When blueback is ON, sets the screen in pleasant blue colour, if no signal is being received in TV /AV mode. Blueback gets disabled as soon as the transmission resumes. It also activated automatically with poor reception of signal. For watching TV in case of weak signal reception, you can OFF the blueback. Set gets OFF automatically if blueback is present more than approximately 10 minutes.

PLUGNPLAY : When the television is initially powered on, plug and play is the basic setting proceed automatically. Make it ON, if you need to tune all the available channels every time after set switch ON from mains. To Stop plug and play press MENU or CALL key. Plug & Play will not execute when child lock in Lock menu is ON.

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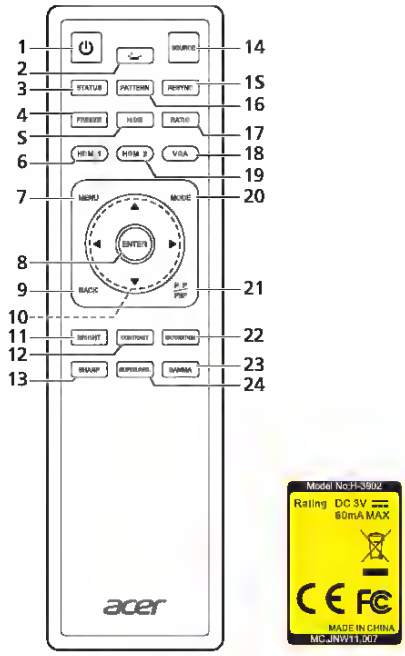
English

Remote Control Layout



#	Function	Description
1	POWER	Refer to the "Turning the Projector On/Off" section.
2	LIGHT	Turns on or off the back light of the remote control.
3	STATUS	Press to display or close the I/O port message on the upper right corner.
4	FREEZE	To pause the screen image.
5	HIDE	Press "HIDE" to hide screen image; press again to display the image.
6	HDMI 1	To change source to HDMI 1.
7	MENU	Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu.
8	ENTER	Confirms your selection of items.
9	BACK	Cancels your selection, or goes back to previous page.
10	Four directional selection keys	Selects items or makes adjustments to your selection.
11	BRIGHT	Press to open the brightness menu for adjusting brightness settings.
12	CONTRAST	Press to open the contrast menu for adjusting contrast settings.
13	SHARP	Press to open the sharpness menu for adjusting sharpness settings.
14	SOURCE	Changes the active source.

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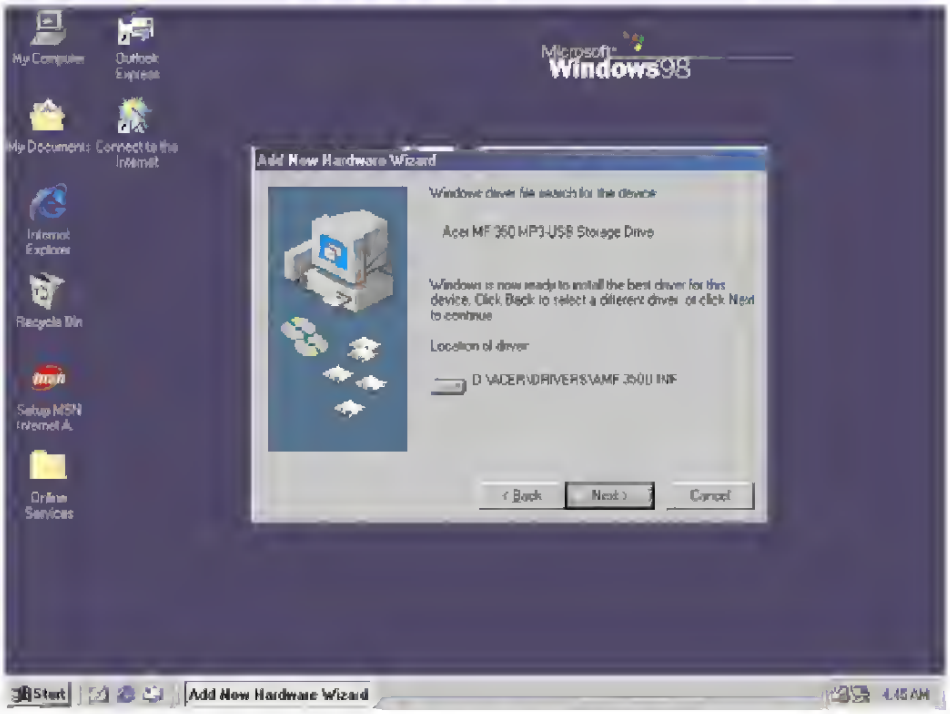
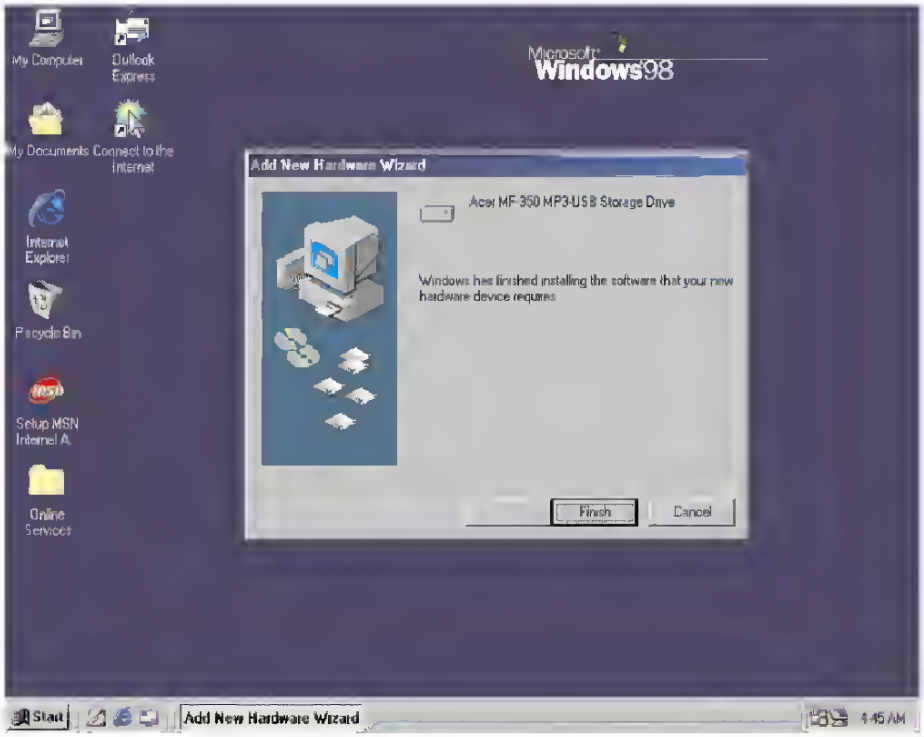
4. Click **Next** to continue.



5. Click **Finish**, and the driver is installed successful.


Add New Hardware Wizard
Acer MF 350 MP3-USB Storage Drive
Windows has finished installing the software that your new hardware device requires
Finish
Cancel
Add New Hardware Wizard

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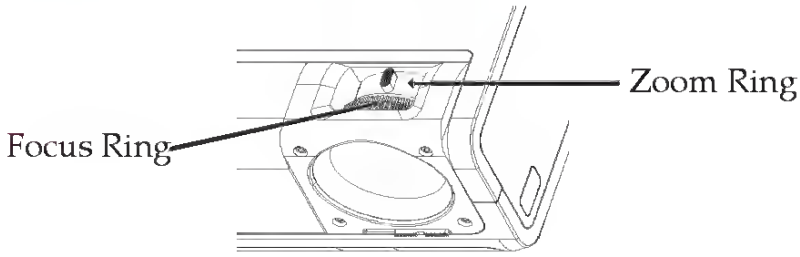
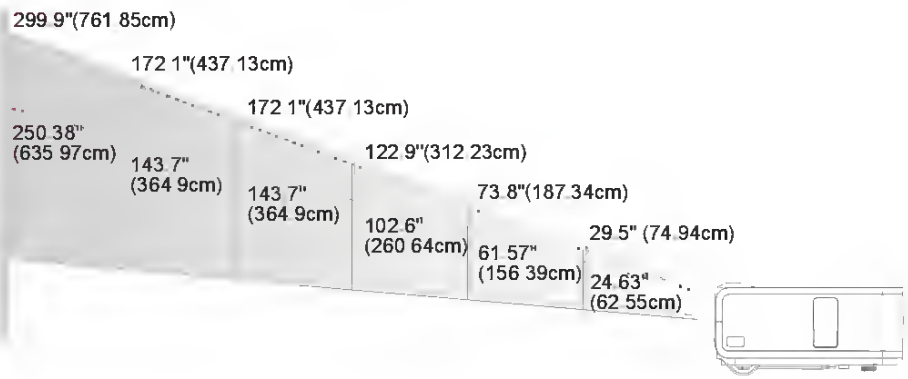
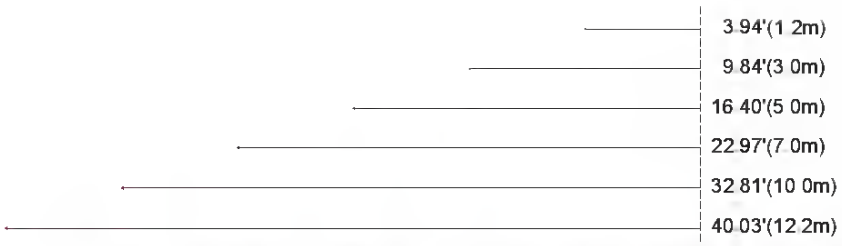
Adjusting the Projector Zoom / Focus

You may turn the zoom ring to zoom in or out. To focus the image, rotate the focus ring until the image is clear. The projector will focus at distances from 3.94 to 39.43 feet (1.2 to12.02 meters).



Adjusting Projection Image Size





Screen (Diagonal)	Max.	29.50"(74.9cm)	73.76"(187.3cm)	122.83"(312.2cm)	172.10"(437.1cm)	245.85"(624.5cm)	299.94"(761.9cm)
	Min	24.63"(62.6cm)	61.57"(156.4cm)	102.62'(260.6cm)	143.66"(364.9cm)	205.23"(521.3cm)	250.38"(636.0cm)
Screen Size	Max.(WxH)	23.60" x 17.70" (60.0 x 45.0cm)	59.00" x 44.25" (149.9 x 112.4cm)	98.34" x 73.76" (249.8 x 187.3cm)	137.68" x 103.26" (349.7 x 114.93cm)	196.68" x 147.51" (499.6 x 374.7cm)	239.96" x 179.96" (609.5 x 457.1cm)
	Min (WxH)	19.70" x 14.78" (50.0 x 37.5cm)	49.26" x 36.94' (125.1 x 93.8cm)	73.76" x 82.09 ' (187.30 x 208.5cm)	103.26" x 114.93' (262.3 x 291.9cm)	164.18 ' x 123.14" (417.0 x 312.8cm)	200.31" x 150.23" (508.8 x 381.6cm)
Distance		3.94'(1.2m)	9.84'(3.0m)	16.40"(5.0m)	22.97"(7.0m)	32.81'(10.0m)	40.03'(12.2m)

❖This graph is for user's reference only.

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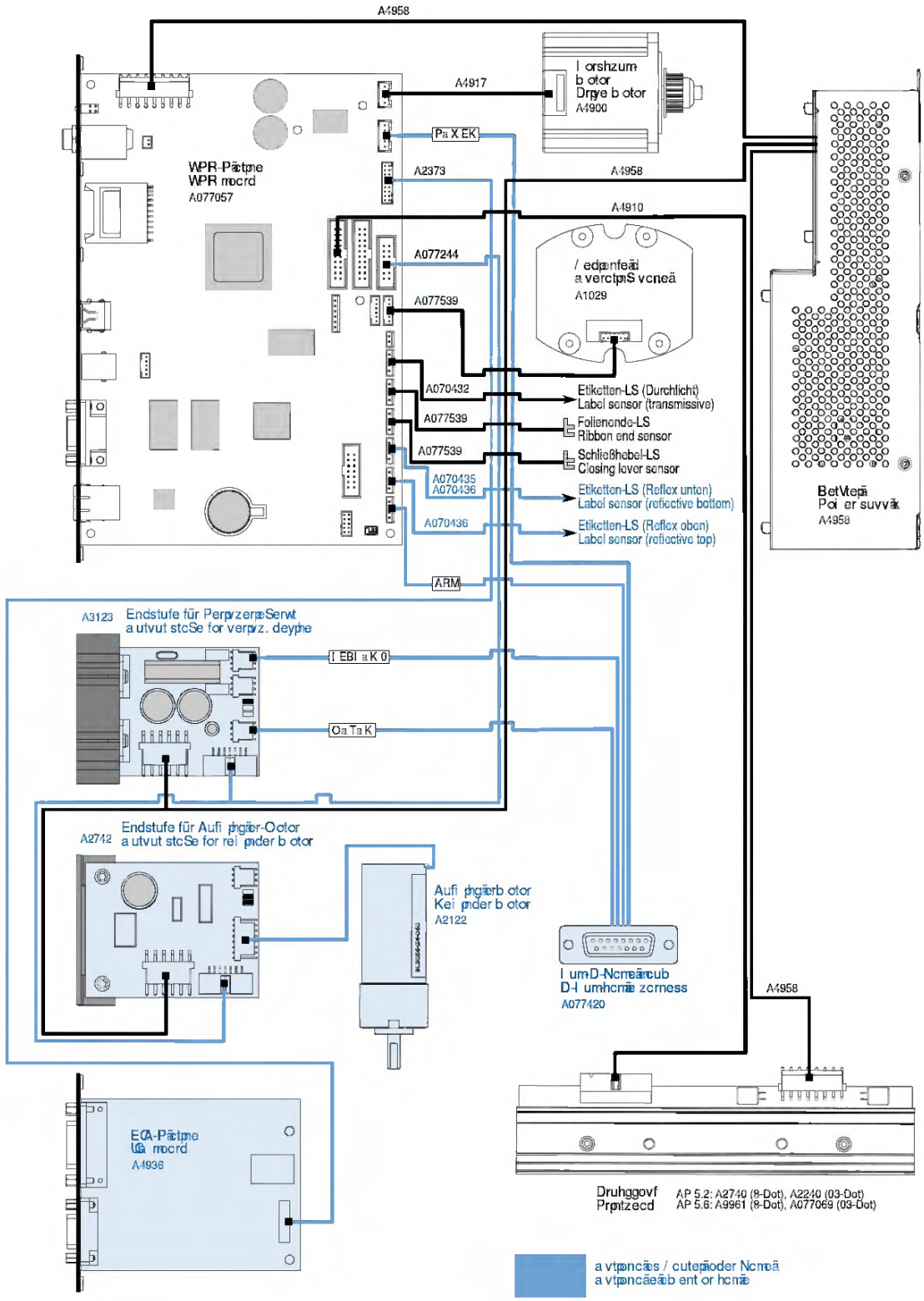
Kabel „AP5.x peripheral“ Spender / Cables AP5.x peripheral dispenser



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2. Touch and hold ☆ for more than three seconds.
   An acoustic signal sounds.
3. Deactivate the appliance.

Using My Favourite Programme function:

- **To activate the function** touch ☆ . The appliance activates your favourite programme.
- **To deactivate the function** touch ⏻ . The appliance deactivates your favourite programme.

When the function operates, you can change the time and temperature.

Child Lock

The Child Lock prevents an accidental operation of the appliance.

Activating and deactivating the Child Lock function:

1. Deactivate the appliance with ⏻ . Do not set an oven function.
2. Touch and hold ⏲ and ∨ at the same time for 2 seconds. An acoustic signal sounds.

SAFE comes on/goes out in the display.

If the oven has Pyro Cleaning function, the door is locked.
SAFE comes on in the display when you touch a sensor field.

Control lock

You can activate the function only when the appliance operates. The Control Lock prevents an accidental change of the oven function.

Activating/deactivating the control lock function:

1. Activate the appliance.
2. Activate an oven function or setting.
3. Touch and hold ⏲ and ∨ at the same time for 2 seconds. An acoustic signal sounds.

Loc comes on/goes out in the display.

You can deactivate the appliance when the control lock is on. When you deactivate the appliance, the control lock deactivates.
If the oven has the Pyro cleaning function, the door is locked.
Loc comes on in the display when you touch a sensor field.

Settings menu

The settings menu lets you to add or remove functions from the main menu (for example: you can set on or off the Residual heat indicator). Settings menu has maximum seven settings (from SET1 to SET7). The number of the settings is different for different models. Look into the table below to see the possible value of each setting.

Settings menu

Indicator of the setting menu	Description	Value to set
SET1	SET+GO	ON/OFF
SET2	RESIDUAL HEAT INDICATOR	ON/OFF

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Figure 2.5: The Device Setting Dialog Box

Note: *Please refer to the software manual* ***Start/Programs/Advantech Automation/Advantech Device Manager/Device Driver's Manual*** *for the firmware download utility guidance and further information.*

2.5 Device Testing

Following the *Setup* and *Configuration* procedures to the last step described in the previous section, you can now proceed to test the device by clicking the ***Test*** Button in the *I/O Device Installation* dialog window. In the *Device Test* dialog window, you are free to test the functions of USB-4761 on Digital input and Digital output tabs.

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